

Appendix A

Long Term Storage

Long Term Storage	R395
Storing the InstantImager	R395
Preparing the InstantImager for Use	R395

This page is intentionally left blank.

Long Term Storage

 **WARNING:** *Non-Compliance with the procedures described below may void the warranty on the detector if failure is identified as due to the lack of gas.*

The InstantImager detector is sensitive to certain environmental conditions. Keeping the detector pressurized at all times will help prevent corrosion damage and arcing. If the system is going to remain inactive for an extended period of time, you may choose to replace the counting gas with CO₂ to reduce costs. Purity specifications for the CO₂ should be similar to those defined in Chapter 1 for the nuclear counting gas, particularly for moisture content.

We recommend that you use CO₂ to store the InstantImager only if the instrument will remain inactive for at least 30 days. For periods of inactivity less than 30 days in duration, keep the InstantImager on counting gas.

After storage with the non-counting gas (CO₂), reconditioning the detector to counting status will take several days. Be sure to follow the guidelines below to protect the instrument and ensure accurate counting results.

Storing the InstantImager

Use the following procedure to prepare the InstantImager for storage.

1. Turn off the power to the instrument.
2. Close the regulator valve on the tank of counting gas and disconnect the system from the tank.
3. Connect the instrument to a tank of compressed CO₂ and open the regulator on the tank (see Chapter 1 for gas purity specifications).
4. Check the tank periodically (at least every two weeks) to ensure that the pressure in the tank does not fall below 100 psi (690 kPa) at any time during the storage of the system. Replace the CO₂ tank as necessary.

Preparing the InstantImager for Use

After the InstantImager detector has been pressurized with CO₂ as described above, prepare the system for counting using the following procedure.

1. Close the regulator valve on the tank of CO₂ and disconnect the system from the tank.
2. Connect the instrument to a tank of counting gas and open the regulator valve on the tank (see Chapter 1 for gas purity specifications).
3. Allow the counting gas to pressurize the detector for at least 3 to 5 days.
4. Turn on the power to the system.
5. Calibrate the system as described in the Chapter 12.